ABSTRACT OF THE DISCLOSURE

Binary words are converted between a non-encoded format and a compressed encoded format, in which the binary words are, at least in part, represented by encoded bit sequences that are shorter than the respective binary word in the non-encoded format. The shortest encoded bit sequences are selected according to the statistical recurrence of the respective words in the non-encoded format, and associated with the binary words with higher recurrence are encoded bit sequences comprising bit numbers that are accordingly smaller. The correspondence between binary words in non-encoded format and the encoded bit sequences associated to them is established by means of indices of an encoding vocabulary. The conversion process includes: arranging the indices in an ordered sequence; organizing the sequence into groups of vectors; splitting each group into a given number of vectors; and encoding the vectors independently from one another.

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